

17414 U.S. PTO  
012904

NON-PROVISIONAL  
UTILITY PATENT APPLICATION  
TRANSMITTAL - 37 CFR 1.53(b)

☐ Duplicate  
(check, if applicable)

Commissioner for Patents  
MAIL STOP PATENT APPLICATION  
Alexandria, VA 22313

Attorney Docket No. 053893-5046  
First Named Inventor: Hoxie, et al.  
Express Mail Label No. EL524558605US  
Total Pages of Transmittal Form: 02

Transmitted herewith for filing is the non-provisional utility patent application entitled:

**COMPOSITIONS, METHODS AND KITS RELATING TO DELETION MUTATIONS OF  
IMMUNODEFICIENCY VIRUS gp120 HYPERVARIABLE REGIONS**

which is:

an ☒ Original; or

a ☐ Continuation, ☐ Divisional, or ☐ Continuation-in-part (CIP)  
of U.S. Provisional Patent Application No. 60/443,364, filed January 29, 2003.

☐ This non-provisional patent application is based on Provisional Patent Application  
No. \_\_\_\_\_, filed \_\_\_\_\_.

Enclosed are:

- ☒ Specification (including Abstract) and claims: 170 pages
- ☐ Application Data Sheet.
- ☒ Unexecuted Declaration.
- ☐ Separate Power of Attorney (including 37 CFR 3.73(b) statement, if applicable).
- ☒ 50 Sheets of formal drawings.
- ☐ Microfiche computer program (Appendix).
- ☒ Nucleotide and/or Amino Acid Sequence Submission, including:
  - ☒ Computer readable copy ☒ Paper Copy ☒ Verified Statement.
- ☐ Under PTO-1595 Cover Sheet, an assignment of the invention
- ☒ Name of Assignee: The Trustees of the University of Pennsylvania
- ☐ Certified copy(ies) of \_\_\_ Application No(s). \_\_\_ filed \_\_\_\_\_ is/are filed:
  - ☐ herewith or ☐ in prior application
- ☒ Applicant(s), by its/their undersigned attorney, claim(s) Small Entity Status under 37 C.F.R. §1.27 as ☐ an Independent Inventor, or ☐ a Small Business Concern, or ☒ a Non-Profit Organization.
- ☐ Preliminary Amendment.
- ☐ Information Disclosure Statement, PTO-1449.
- ☐ Request for Nonpublication of Application Under 35 U.S.C. §122(b)
- ☐ Other:

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10/767648  
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The filing fee is calculated as follows:

|                                       |              |              | SMALL ENTITY        |                |    | LARGE ENTITY        |           |
|---------------------------------------|--------------|--------------|---------------------|----------------|----|---------------------|-----------|
| CLAIMS                                | NO.<br>FILED | NO.<br>EXTRA | BASIC FEE:<br>\$385 |                |    | BASIC FEE:<br>\$770 |           |
| Total                                 | 72 -20 =     | 52           | X9                  | \$ 468         | OR | X18                 | \$        |
| Independent                           | 17 -3=       | 14           | X43                 | \$ 602         | OR | X86                 | \$        |
| [ ] Multiple Dependent Claims Present |              |              | \$145               | \$             | OR | \$290               | \$        |
|                                       |              |              | <b>TOTAL</b>        | <b>\$ 1455</b> | OR | <b>TOTAL</b>        | <b>\$</b> |

- [ ] The Commissioner is not authorized to charge the filing fee at this time as we elect to defer payment of the entire filing fee until receipt of a Notice to File Missing Parts.
- [ ] A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- [X] The Commissioner is hereby authorized to charge and/or credit **Deposit Account No. 50-0310 (Billing No. 053893-5046)** as noted below.
- [X] Any overpayments or deficiencies in the above-calculated fee.
- [X] Filing fee in the amount of **\$1455.00** as calculated above.
- [X] Any additional fees required under 37 C.F.R. § 1.16 and § 1.17.
- [X] In the event that a Petition for Extension of Time is required during the prosecution of this application, but not submitted, please charge any extension fee under 37 C.F.R. § 1.136(a) to our Deposit Account noted above.

**CORRESPONDENCE ADDRESS:**

*January 29 2004*  
(Date)

By:

*Raquel M. Alvarez*

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RMA/rmd  
Enclosures

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Patent Application of : Group Art Unit:  
James A. Hoxie *et al.* : To Be Assigned  
:  
Appln. No.: To Be Assigned : Examiner: To Be Assigned  
:  
Filed: Herewith :  
:  
For: COMPOSITIONS, METHODS AND KITS : 053893-5046  
RELATING TO DELETION MUTATIONS:  
OF IMMUNODEFICIENCY VIRUS GP120:  
HYPERVARIABLE REGIONS :

**TRANSMITTAL OF FORMAL DRAWINGS**

**Attention Official Draftsperson:**

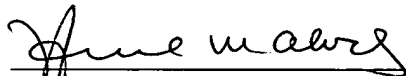
Enclosed is fifty (50) sheets of formal drawing, Figure 1-24F, corresponding to the above identified application. It is respectfully submitted that the enclosed formal drawings are in acceptable form.

Respectfully submitted,

**JAMES A. HOXIE *et al.***

January 29, 2004  
(Date)

By:



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RMA/QDN 

Enclosures: (50 sheets of formal drawings)